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1 Energy-efficient soft real-time CPU scheduling for mobile multimedia systems

Wanghong Yuan, Klara Nahrstedt
October 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles
Publisher: ACM

Full text available: Pdf (511.80 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 251, Citation Count: 42

This paper presents *GRACE-OS*, an energy-efficient soft real-time CPU scheduler for mobile devices that primarily run multimedia applications. The major goal of GRACE-OS is to support application quality of service and save energy. To achieve this ...

Keywords: mobile computing, multimedia, power management

2 3D graphics rendering time modeling and control for mobile terminals

Nicolaas Tack, Francisco Morán, Gauthier Lafruit, Rudy Lauwereins

April 2004 Web3D '04: Proceedings of the ninth international conference on 3D Web technology

Publisher: ACM

Full text available: Pdf (348.33 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 99, Citation Count: 4

3D graphics has found its way to mobile devices such as Personal Digital Assistants (PDA) and cellular phones. Given their limited battery capabilities, these devices typically have less computational resources available than their counterparts connected ...

Keywords: MPEG-4 WSS, mobile terminals, rendering time control, rendering time modeling

3 Local Time Warp: An Implementation and Performance Analysis

Hassan Rajaei

June 2007 PADS '07: Proceedings of the 21st International Workshop on Principles of Advanced and Distributed Simulation

Publisher: IEEE Computer Society

Full text available: Pdf (482.96 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 44, Citation Count: 0

The Local Time Warp (LTW) model was one of the novel approaches to distributed simulation presented in early 90s. While several similar schemes had emerged afterwards, no implementation and performance analysis of LTW were offered. This paper provides ...

4 Efficient Load Balancing Schemes for Large-Scale Real-Time HLA/RTI Based Distributed Simulations

Azzedine Boukerche, Ahmad Shadid, Ming Zhang

October 2007 DS-RT '07: Proceedings of the 11th IEEE International Symposium on Distributed Simulation and Real-Time Applications

Publisher: IEEE Computer Society

Full text available: Pdf (407.29 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 38, Citation Count: 0

The Real-time extension of High Level Architecture (HLA) is very essential and useful for many large-scale distributed simulation systems. Most previous attempts to design the real-time Run time Infrastructure (RT-RTI) have enabled the usage of supported ...

5 Greedy decoding for statistical machine translation in almost linear time

Ulrich Germann
May 2003 NAACL '03: Proceedings of the 2003 Conference of the North American Chapter of the Association for Computational Linguistics on Human Language Technology - Volume 1, Volume 1
Publisher: Association for Computational Linguistics
Full text available: Pdf (194.88 KB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 16, Citation Count: 5

We present improvements to a greedy decoding algorithm for statistical machine translation that reduce its time complexity from at least cubic ($O(n^6)$ when applied naïvely) to practically linear time[1] without sacrificing ...

6 Locality approximation using time

Xipeng Shen, Jonathan Shaw, Brian Meeker, Chen Ding
January 2007 ACM SIGPLAN Notices, Volume 42 Issue 1
Publisher: ACM
Full text available: Pdf (613.66 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 57, Citation Count: 1

Reuse distance (i.e. LRU stack distance) precisely characterizes program locality and has been a basic tool for memory system research since the 1970s. However, the high cost of measuring has restricted its practical uses in performance debugging, locality ...

Keywords: performance prediction, program locality, reference affinity, reuse distance, time distance, trace generator

7 Developing the statistical parameters for simultaneous variation in final payload and total load time

Govindan Kannan, Michael C. Vorster, Julio C. Martinez

December 1999 WSC '99: Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 2, Volume 2

Publisher: ACM

Full text available: Pdf (140.72 KB) Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 8, Citation Count: 0

8 Modeling and optimizing run-time reconfiguration using evolutionary computation

J. Harkin, T. M. McGinnity, L. P. Maguire

November 2004 ACM Transactions on Embedded Computing Systems (TECS), Volume 3 Issue 4

Publisher: ACM

Full text available: Pdf (506.52 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 85, Citation Count: 3

The hardware--software (HW--SW) partitioning of applications to dynamically reconfigurable embedded systems allows for customization of their hardware resources during run-time to meet the demands of executing applications. The run-time reconfiguration ...

Keywords: Evolutionary computing, FPGAs, partitioning, run-time reconfiguration

9 A robust system for accurate real-time summaries of internet traffic

Ken Keys, David Moore, Cristian Estan

June 2005 ACM SIGMETRICS Performance Evaluation Review, Volume 33 Issue 1

Publisher: ACM

Full text available: Pdf (222.01 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 70, Citation Count: 7

Good performance under extreme workloads and isolation between the resource consumption of concurrent jobs are perennial design goals of computer systems ranging from multitasking servers to network routers. In this paper we present a specialized system ...

Keywords: adaptive response, measurement, passive monitoring, sampling, traffic estimation

10 Real-time volume graphics

Klaus Engel, Markus Hadwiger, Joe M. Kniss, Aaron E. Lefohn, Christof Rezk Salama, Daniel Weiskopf
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: Pdf (7.63 MB) Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 100, Downloads (12 Months): 607, Citation Count: 1

The tremendous evolution of programmable graphics hardware has made high-quality real-time volume graphics a reality. In addition to the traditional application of rendering volume data in scientific visualization, the interest in applying these techniques ...

11 The expansion and mixing time of skip graphs with applications

James Aspnes, Udi Wieder
July 2005 SPAA '05: Proceedings of the seventeenth annual ACM symposium on Parallelism in algorithms and architectures
Publisher: ACM
Full text available: Pdf (218.36 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 34, Citation Count: 2

We prove that with high probability a skip graph contains a 4-regular expander as a subgraph, and estimate the quality of the expansion via simulations. As a consequence skip graphs contain a large connected component even after an adversarial deletion ...

Keywords: P2P, expansion

12 Learning response time for WebSources using query feedback and application in query optimization

Jean-Robert Gruser, Louiqa Raschid, Vladimir Zadorozhny, Tao Zhan
March 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (625.36 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 20, Citation Count: 9

The rapid growth of the Internet and support for interoperability protocols has increased the number of Web accessible sources, WebSources. Current wrapper mediator architectures need to be extended with a wrapper cost model (WCM) for WebSources that ...

Keywords: Data-intensive applications on the Web, Query languages and systems for Web data

13 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: Pdf (7.39 MB) Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 63, Downloads (12 Months): 720, Citation Count: 1

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering ...

14 A generic operator over discrete time intervals

Jérémie Blanc, Rachid Echahed
October 2002 PPDP '02: Proceedings of the 4th ACM SIGPLAN international conference on Principles and practice of declarative programming
Publisher: ACM
Full text available: Pdf (343.66 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 10, Citation Count: 0

We define a new generic operator, ∇, which can be used within any programming language which allows one to define discrete time intervals. Let T<inf>0</inf>, ..., T<inf>n</inf> be the consecutive instants ...

Keywords: discrete time intervals, operational semantics, timed term rewrite systems

15 An approach for developing real-time distributed systems using an agent architecture description language

Craig Eichelkraut, Letha Etzkorn
March 2006 ACM-SE 44: Proceedings of the 44th annual Southeast regional conference
Publisher: ACM
Full text available: Pdf (184.15 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 60, Citation Count: 0

In this paper, we define an approach to Distributed Control Systems (DCS) that employs an Architecture Description Language to design and analyze agent based distributed control systems. The ADL is used as a Software Engineering method to simplify the ...

16 Progressive Time-Parallel Simulation

Tobias Kiesling
May 2006 PADS '06: Proceedings of the 20th Workshop on Principles of Advanced and Distributed Simulation
Publisher: IEEE Computer Society
Full text available: Pdf (287.58 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 22, Citation Count: 0

Parallel simulation techniques are designed to increase simulation model performance by exploiting model concurrency. Unfortunately, designing efficient parallel simulations is not always an easy task. Most existing techniques guarantee results identical ...

17 Error analysis of homogeneous mean queue and response time estimators

Jeffrey A. Brumfield, Peter J. Denning
December 1982 ACM SIGMETRICS Performance Evaluation Review, Volume 11 Issue 4
Publisher: ACM
Full text available: Pdf (465.48 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 4, Citation Count: 0

Flow balance and homogeneity assumptions are needed to derive operational counterparts of M/M/1 queue length and response time formulas. This paper presents relationships between the assumption errors and the errors in the queue length and response time ...

18 Analysis and optimization of distributed real-time embedded systems

Paul Pop, Petru Eles, Zebo Peng, Traian Pop
June 2004 DAC '04: Proceedings of the 41st annual conference on Design automation
Publisher: ACM

Full text available: Pdf (1.00 MB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 323, Citation Count: 3

An increasing number of real-time applications are today implemented using distributed heterogeneous architectures composed of interconnected networks of processors. The systems are heterogeneous not only in terms of hardware and software components, ...

19 Time-Variant Distributed Agent Matching Applications

David Sarne, Sarit Kraus
July 2004 AAMAS '04: Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 1, Volume 1
Publisher: IEEE Computer Society

Full text available: Pdf (285.92 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 8, Citation Count: 0

The process of pair partnership formation is an important infrastructure for many plausible MAS applications. Each agent evaluates potential partner agents, where each potential match yields a different utility. Commonly, the utility associated with ...

20 Analysis of noisy time-series signals with GA involving viral infection with tropism

Yuji Sato, Yuta Yasuda, Ryuji Goto
July 2007 GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation
Publisher: ACM

Full text available: Pdf (692.58 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 62, Citation Count: 0

In this paper we report on a study in which genetic algorithms are applied to the analysis of noisy time-series signals, which is related to the problem of analyzing the motion characteristics of moving bodies (distance, bearing, course, velocity, etc.) ...

Keywords: genetic algorithms, inverse problem, noisy optimization, time-series problem, tropism, virus evolution, virus infection

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